

Wireless Counter System

for crowd control in Public Places

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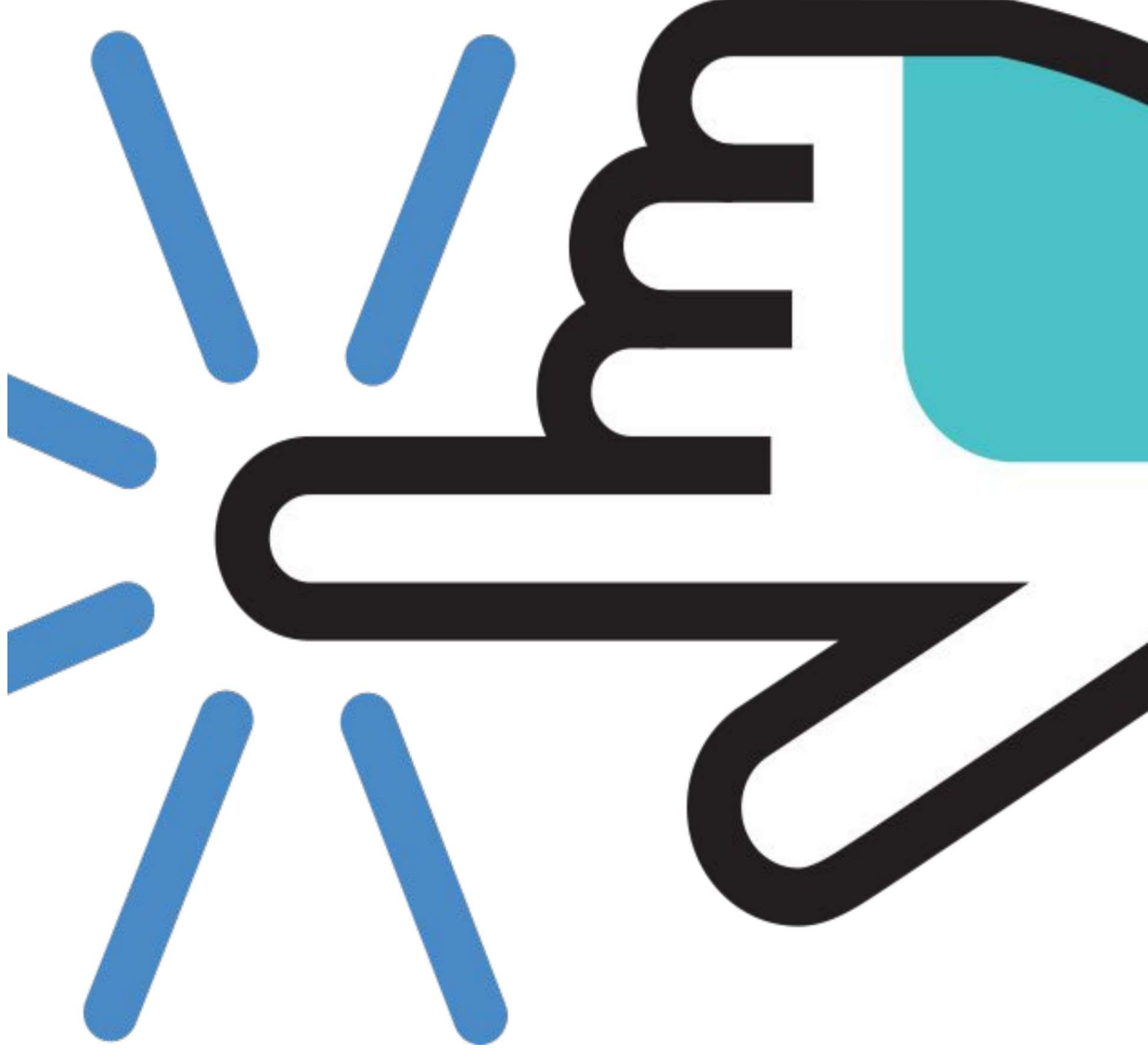
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Team Members

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Dattatray Khaire(Tester)

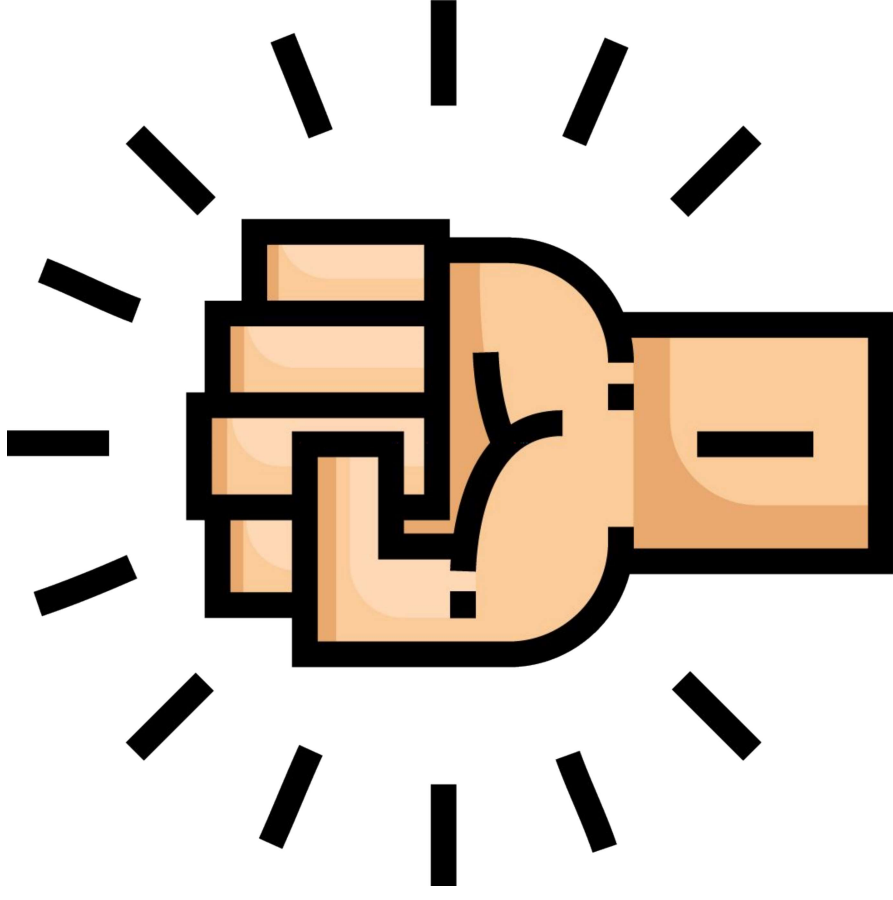
Rakesh Aglave(Android Dev)

Niranjan Tamhane(Server Database Dev)



MOTIVATION

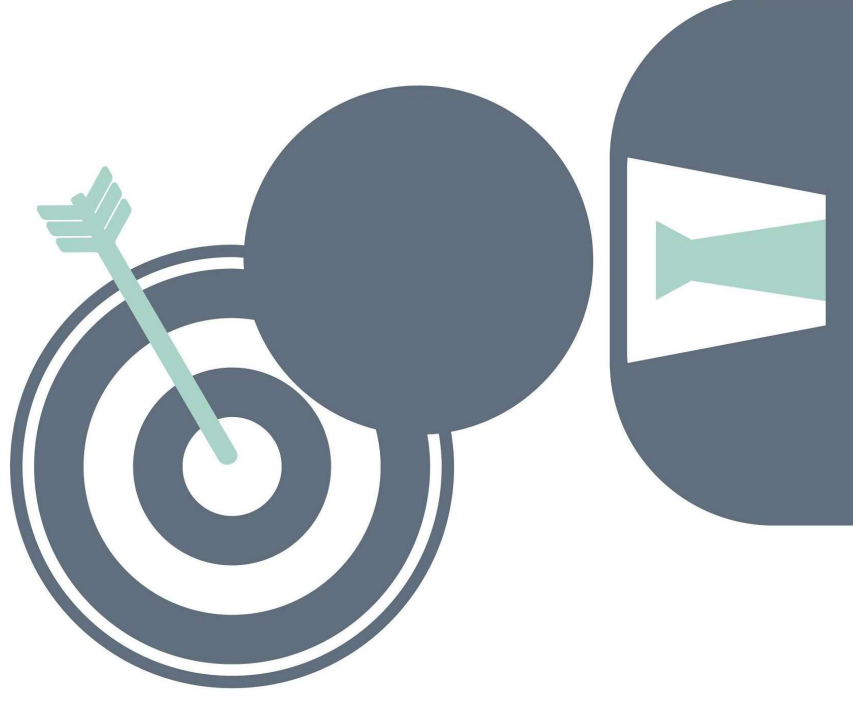
- 1) It's the Era of the innovation required and technology already exists now and just needs to reuse for any other useful idea.
- 2) Combining two or three modules may resulting in a system that helps in crowd management and thus technical resources are utilized saving "Time".
- 3) Pandemic Covid-19 is the big push to this system.

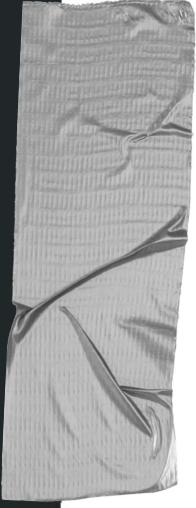


Aim And

Objectives

- Maintain Social distancing.
- Crowd management and control using wireless Counters.
- Save time and paperwork.
- Making Digitalization easier.





1. Intro

People get tired of standing in lines and waiting in public places. Thus leading them to unfollow public safety rules.



Unexpected Situations

This defies all the planning done before proceeding in public places.



Emotional

People to freshen up themselves go outside to Roam.



Simple

People would have to make their lives simple in the outside world also being safe at the same time.

Solution for such problem.

(With a little help from your smartphone)

- A wireless interface between Counters and customers would help both parties to maintain social distance and save time, money and energy spent in queues.
- People would prefer to check the crowd in public places before going to those places.
- Some more little extra features would make digitalization easier than before.

Literature Survey

[1] Title: Managing Crowds with Wireless and Mobile Technologies

Authors: Mohammad Yamin , Abdullah M. Basahel, and Adnan A. Abi Sen

Description: In this article, a framework of a Crowd Control and Health Management System specially designed to prevent and manage stampedes and other disasters. With the guidance of this system as our base paper we decided to develop Wireless counter System for crowd control in public places.

[2] Title: Wi-Fi Based Notification System

Authors: Prof. V.P.Patil, Onkar Hajare, Shekhar Palkhe, Burhanuddin Rangwala

Description: The main objective of this project is to develop a wireless notice board that displays messages sent from the user. Notice Board is a primary thing in any institution/ organization or public utility places like bus stations, railway stations, parks, etc. This system motivated us to develop the local systems that work as local servers.

Keywords

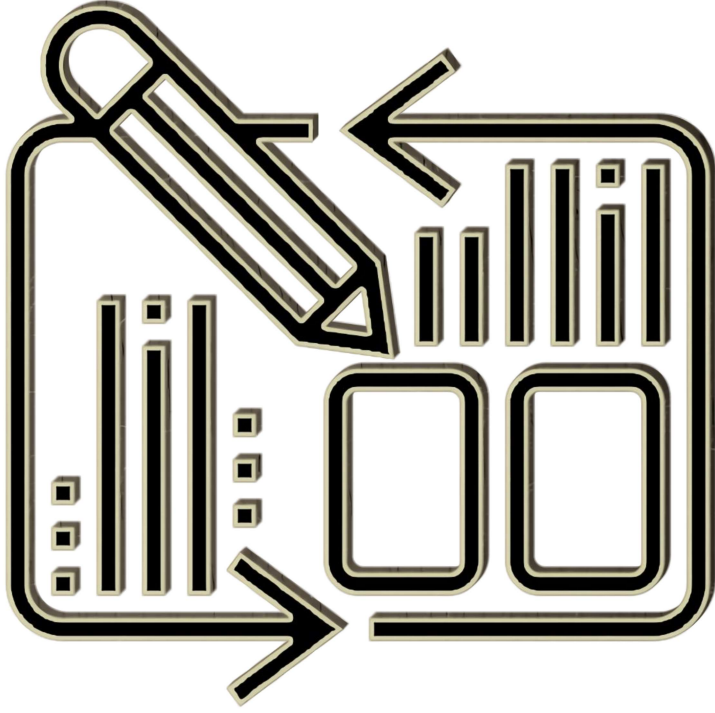


Wireless Counter

Crowd Control



Methodology



Web community that allows people to discuss common topics.

People exchange their ideas on that particular topic , where in we can get an idea about variety of ways to differently think about that topic.

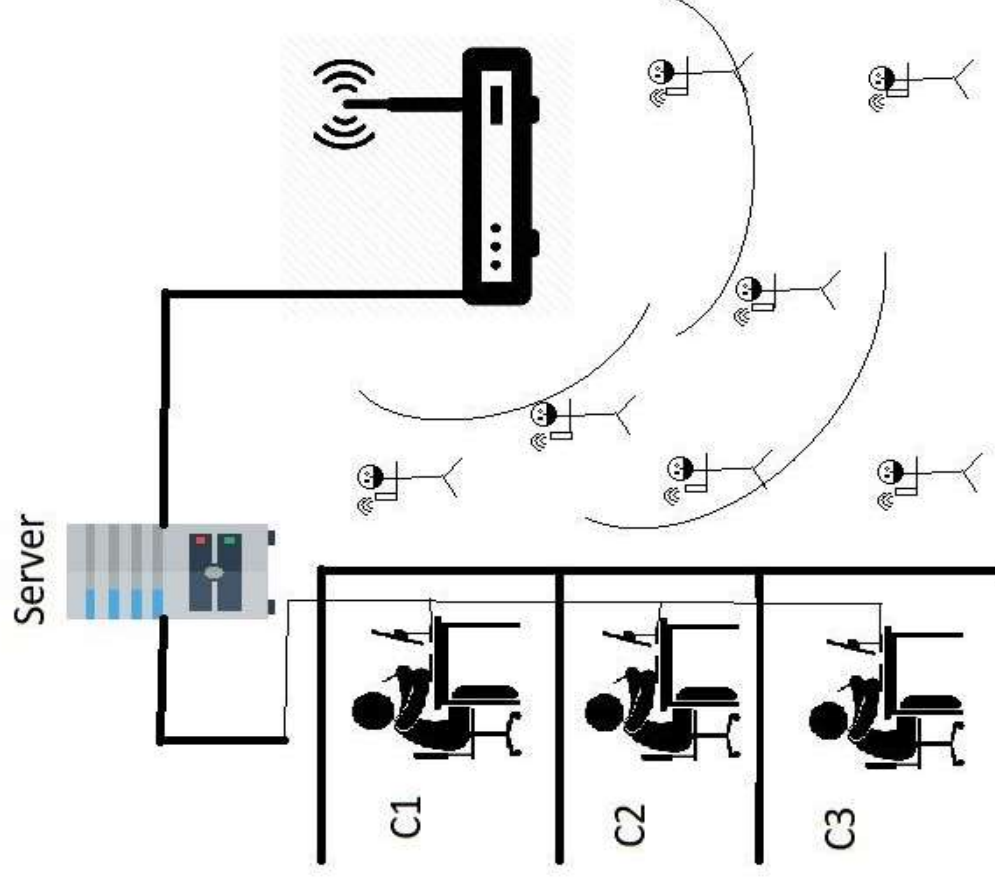
Usage of different systems to collect data about the crowd.

Usage of Wireless networking.

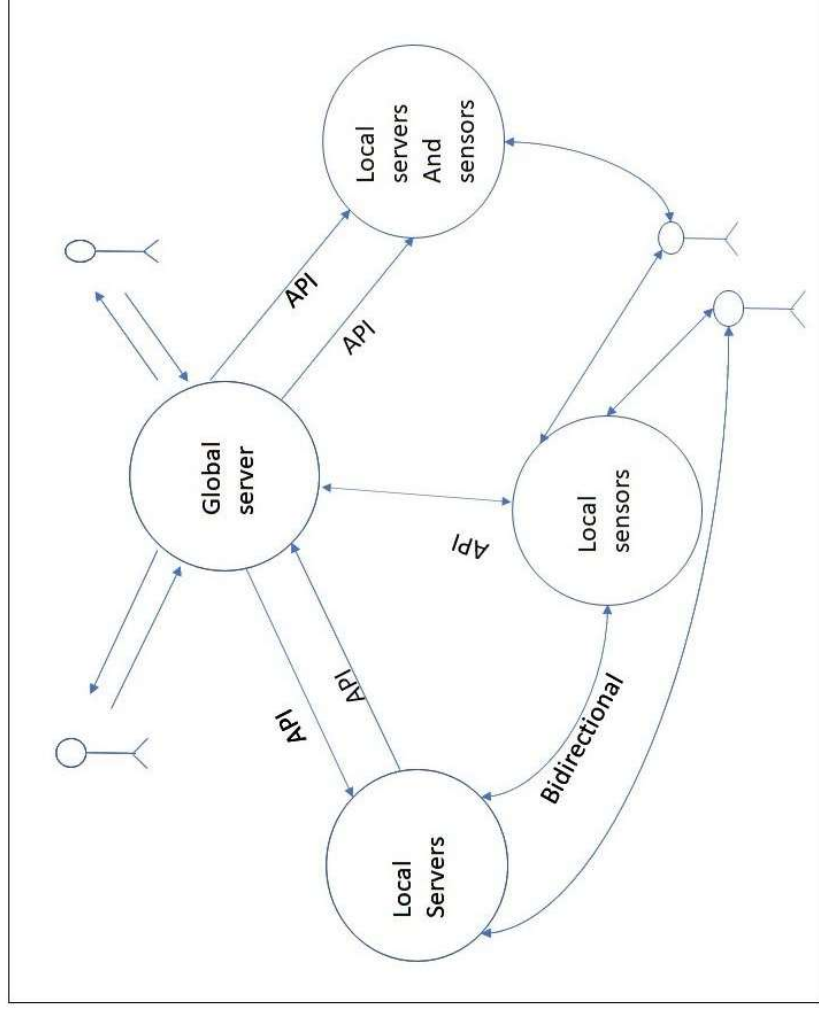
Usage of ML to Train Global Cloud System.

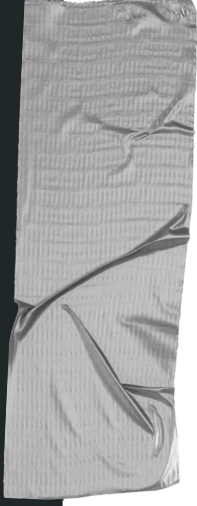


OVERVIEW OF THE Local SYSTEM



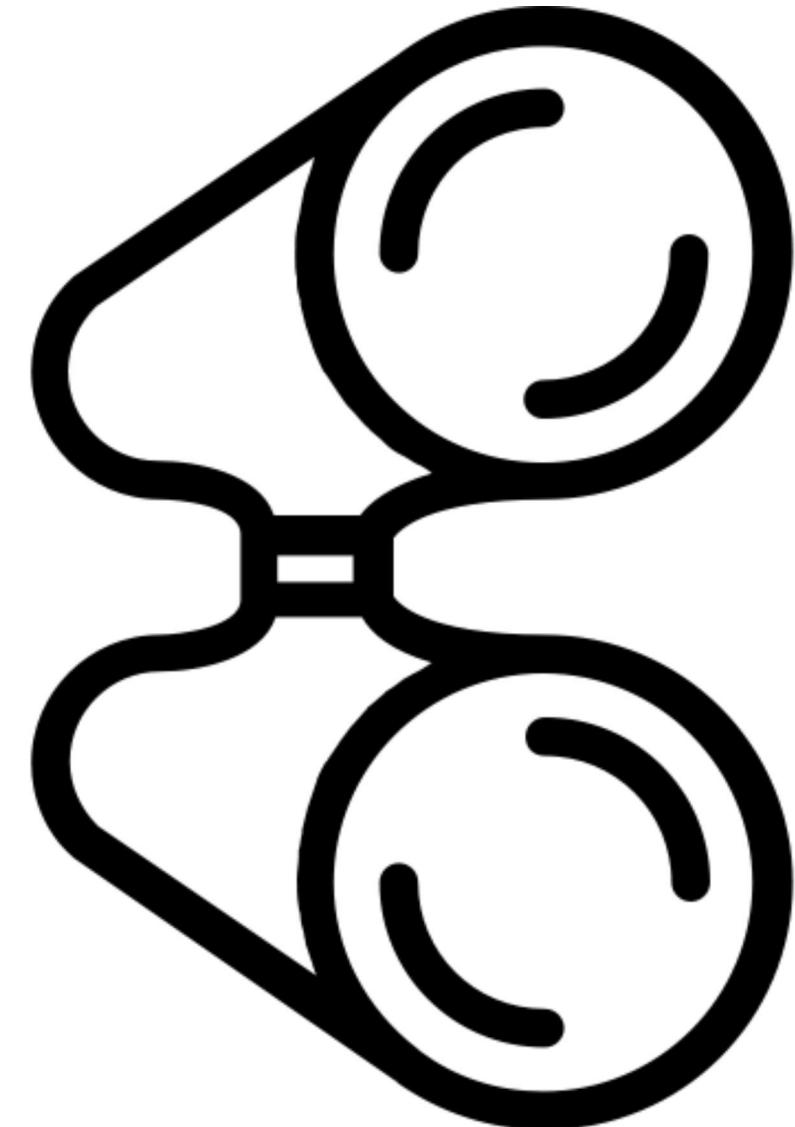
Overview of Systems' communication





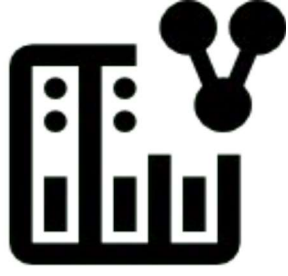
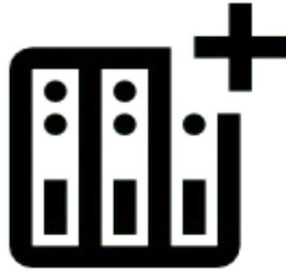
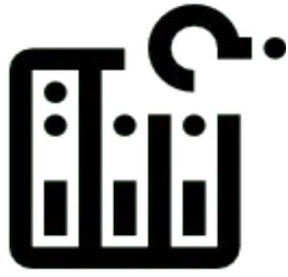
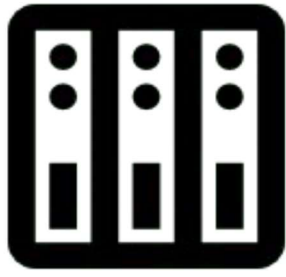
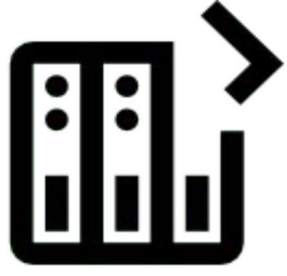
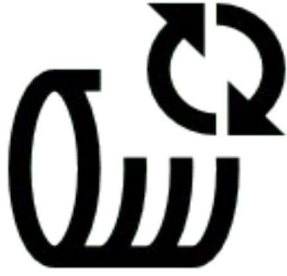
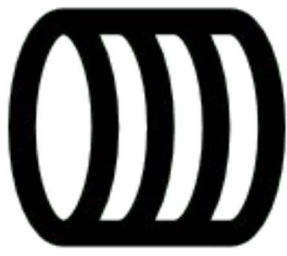
FEATURES

- Interface to communicate with the person working on the other side of the counter.
- Download, fill and upload portable forms without waiting in the queue.
- Get several people in the line of a specific counter.
- Token-based to save space in the queue.
- Application status checking without troubling Counterperson.
- Notice boards.
- Modifications for Queries, Forms, Applications and notices.



SCOPE

- It is a target based system that's why the same system developed cannot be used for different places but domains are limited so systems developed are reusable.
- Such systems can be used in Banks, schools, government offices, colleges, food stalls and hotels, post offices, malls, stores, etc. Where the crowd is hard to manage.



Requirements

- Powerful server machines to manage the crowd at the global and local level.
- Backend- Python 3, Django(Framework), sqlite3 and MySQL databases.
- Frontend- HTML5, JavaScript, CSS, JQuery, Bootstrap.
- Wireless Routers having a vast range of more than 200 m.

Reference

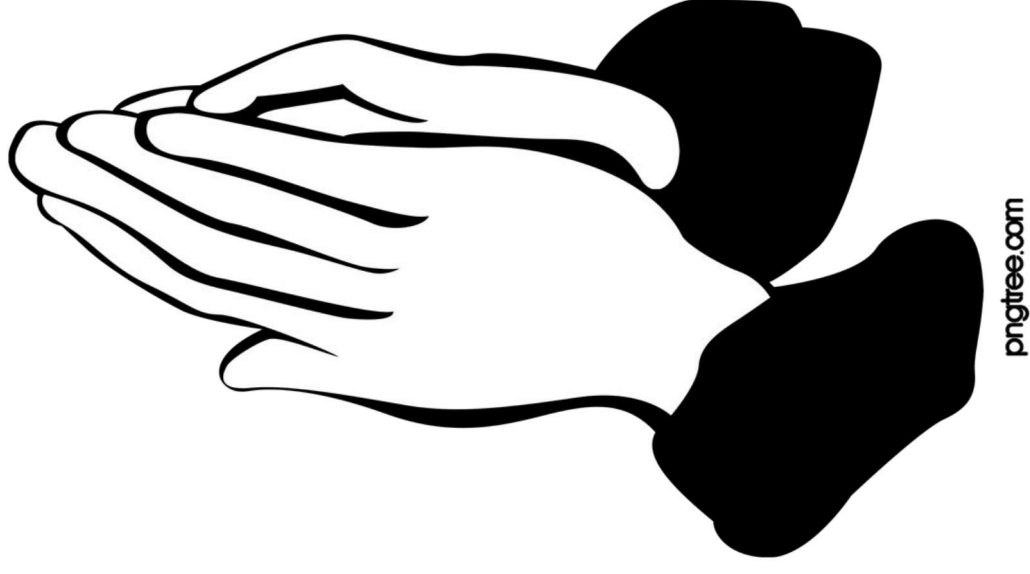
- [1] Wireless Networking Basics by NETGEAR, Inc. 4500 Great America Parkway, Santa Clara, CA 95054 USA.
- [2] A Message Proliferation System using Short-Range Wireless Devices
Department of Information Systems and Media Design, Tokyo
Denki University
- [3] Protocols and Architectures for Wireless Sensor Networks. John Wiley & Sons, June 2005.



©

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**Thank you! for your
attention.**



From outsider to star

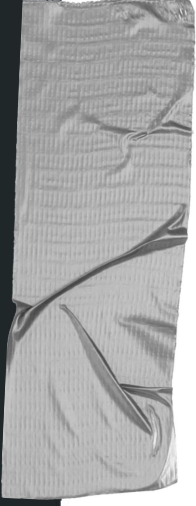
Alberto scored 30 goals in 21 games. He is now being scouted by several professional clubs in the Premier League. And he's a favorite of the other boys on the team.

[See a short video on Alberto's story](#)



Tip

Stories become more credible when they use concrete details such as the specific complex moves Alberto learned through Translate and his 30 goals in 21 games performance stats.



3. Examples

People need to understand how rare or frequent your examples are.

Pick 1 or 2 statistics and make them as concrete as possible. Stats are generally not sticky, but here are a few tactics:



Relate

Deliver data within the context of a story you've already told



Compare

Make big numbers digestible by putting them in the context of something familiar

It's no surprise Marcos uses Google Translate in his shop regularly.

There are 23 officially recognized languages in the EU.

Source: [theguardian.com](https://www.theguardian.com)



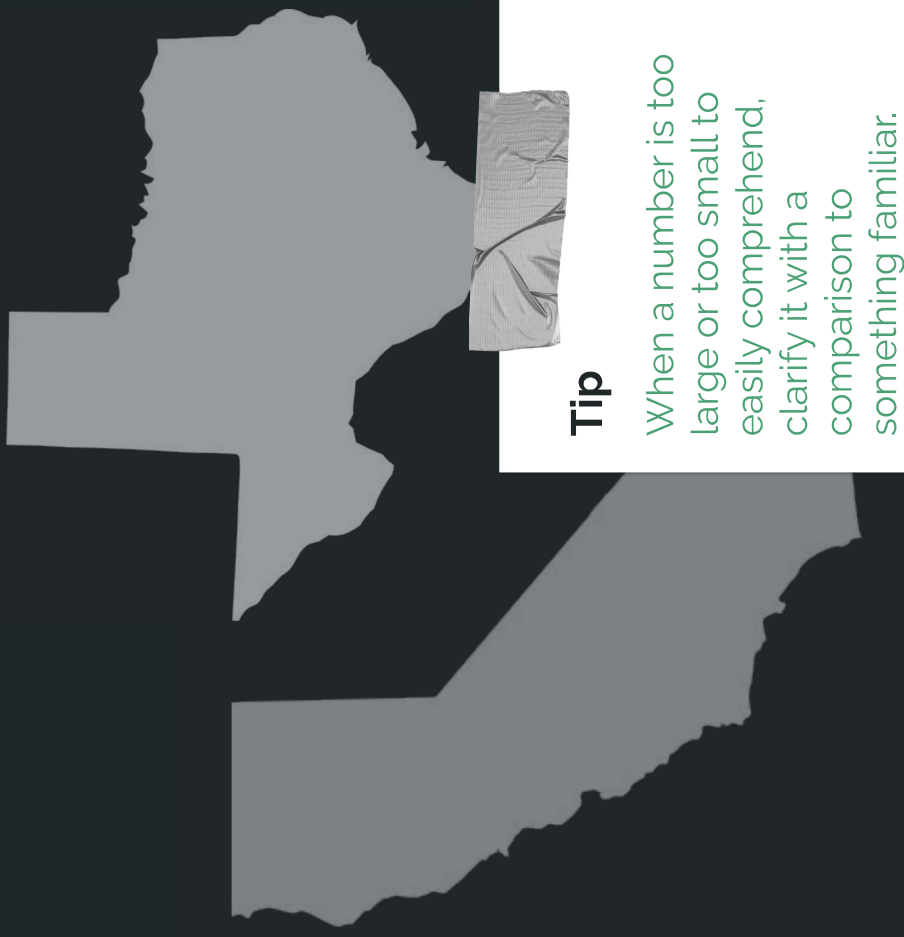
Tip

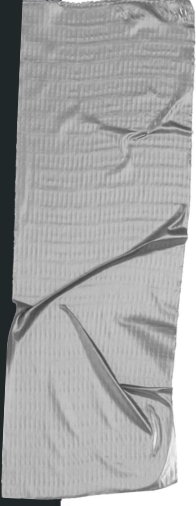
Don't let data stand alone. Always relate it back to a story you've already told, in this case, Marco's shop.

More than 50 million Americans travelled
abroad in 2015

THAT'S MORE THAN THE POPULATION OF CALIFORNIA AND TEXAS COMBINED

Source: travel.trade.gov





4. Closing

Build confidence around your product or idea by including at least one of the these slides:



Milestones

What has been accomplished and what might be left to tackle?



Testimonials

Who supports your idea (or doesn't)?



What's next?

How can the audience get involved or find out more?

Milestones

October 2014

Translate web pages with Chrome extension

October 2015

Translate text within an app

2014

2015

August 2015

Translate conversations through your Android watch

November 2015

Translate written text from English or German to Arabic with the click of a camera

What people are saying

With this app, I'm
confident to plan a
trip to rural Vietnam


Wendy Writer, CA

Visual translation
feels like magic

Ronny Reader, NYC

, NYC

Quotes for illustration purposes only



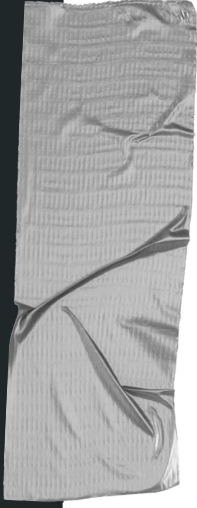
Know a 2nd language? Make Google Translate even better by joining the community.



Tip

Inspire your audience to act on the information they just learned.

Depending on your idea, this can be anything from downloading an app to joining an organization.

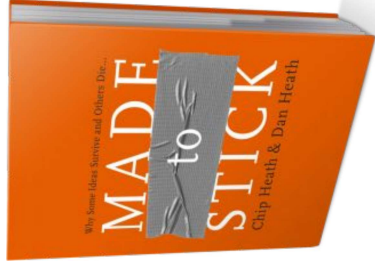


Good luck!

We hope you'll use these tips to go out and deliver a memorable pitch for your product or service!

For more (free) presentation tips relevant to other types of messages, go to heathbrothers.com/presentations

For more about making your ideas stick with others, check out our book!



Project Progress

1. First target system college counter 40% assumed as done.
2. Planning to make a mobile app instead of using the browser.
3. Barcode scanning would help to skip the above plan.
4. Jobs left to be done are chat response for query answering, connecting to the database then form status online API, designing global system, cross-connecting global and local server through API calls.

